

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH

Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors
and associated equipment

Editors: Kai Siegbahn & Erik Karlsson

MASTER INDEX

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 Drexler, J., R.D. Fischer, R. Heil, K. Huber, U. Kneissl, G. Mank, R. Ratzek, H. Ries, H. Ströher, T. Weber and W. Wilke, Arrangements of parallel plate avalanche detectors for electrofission and photofission experiments
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 Eastham, D.A., Voltage limitations of electrostatic accelerators
 Eaton, G.H., A. Carne, D.H. Reading and E.G. Sandels, A pulsed surface muon beam/pion beam for the Rutherford Appleton Laboratory spallation neutron source
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 213 (1983) 165
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 Ehrlich, R., T. Gentille, Y. Kubota, S. Stone, R. Talman, R. Wilcke, M.S. Alam, S. Csorna, R.G. Hicks, R. Panvini and J. Poucher, Particle identification by ionization measurements: description of the CLEO dE/dx system
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 Eisen, Y., G. Engler, E. Ovadai and Y. Shamai, A combined real time wide energy range neutron dosimeter and survey meter for high neutron dose rates with Si surface barrier detectors
 Eisler, P., T. Lwin, G. Nelson and S. Youl, Simultaneous determination of exponential background and Gaussian peak functions in gamma ray scintillation spectrometers by maximum likelihood technique
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 Evans, L.G., J.I. Trombka, D.H. Jensen, W.A. Stephenson, R.A. Hoover, J.L. Mikesell, A.B. Tanner and F.E. Senftle, Inter-pulse high-resolution gamma-ray spectra using a 14 MeV pulsed neutron generator
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- Filatova, N.A., A. Forycki, V.M. Golovatyuk, Z. Guzik, R.V. Kadyrov, T.S. Nigmanov, V.D. Riabtsov, M.S. Shafranov, E.N. Tsyanov, I.A. Tyapkin, D.V. Uralsky, J. Wojtkowska, M.D. Bavizhev, N.K. Bulgakov and A.N. Iskakov, Low pressure drift chamber for studies of the radiation from relativistic particles in single crystals 215 (1983) 135
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- Fink, D., Li, B and N in ancient materials 218 (1983) 456
- Fink, D., J.P. Biersack, M. Städle, K. Tjan and V.K. Cheng, Z_2 stopping power oscillations as derived from range measurements 218 (1983) 817
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 Flores, R., L. Ortiz, M. Moreno, G. Corkidi, A. Solar and M. Balcazar-Garcia, Opto-electronic system for automatic track counting in plastic SSNTD
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 Fujii, T., Y. Hashimoto, T. Kageyama, K. Nakamura, F. Sai, S. Sakamoto, S. Sato, T. Takahashi, T. Tanimori, Y. Umeda and S.S. Yamamoto, A laser-based TOF monitoring system using a high-speed vacuum photodiode (*Letter to the Editor*)
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 217 (1983) 163
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 217 (1983) 77
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 Ing, H., R.C. McCall, T.M. Jenkins and G.J. Warren, Identification of neutrons from the cooling water of a GeV electron accelerator
 Ingwersen, H., E. Jaeschke and R. Repnow, Deceleration of highly stripped ions by the Heidelberg post-accelerator
 Inoue, K., On the 20 K methane moderator and its applicability to an intense pulsed cold neutron source (*Letter to the Editor*)
 Inyakin, A.V., D.B. Kakauridze, A.A. Lednev, Yu.D. Prokoshkin and A.V. Singovsky, Characteristics of lead-glass γ -spectrometer radiators irradiated by high energy particles
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 Jonker, M., F. Udo, U. Amaldi, R. Donnet, W. Flegel, B. Friend, E. Gygi, M. Jimenez, A. King, F. Schneider, A.M. Wetherell, J. Aspiazu, F. Niebergall, J. Schütt, F. Ferroni, D. De Pedis and V. Valente, The limited streamer tube system of the CHARM collaboration
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- Kamon, T., K. Kondo, A. Yamashita, T. Shimizu and L. Nodulman, A new scintillator and wavelength shifter
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 different parameters for light element matrices in thick target PIXE and use of standards for calibration in

- such analysis
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 Khan, H.A., Determination of critical angles of etching and track registration efficiencies of track detectors
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 Klages, H.O., H. Dobiasch, P. Doll, H. Krupp, M. Oexner, P. Plischke, B. Zeitnitz, F.P. Brady and J.C. Hiebert, POLKA - a polarized continuous energy neutron beam source at the Karlsruhe cyclotron
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 Klein, H., A. Schempp, J. Häuser, E. Müller, W. Rohrbach, D. Walther, T. Weis, K. Bethge, H. Baumann and K. Meinel, Upgrading of the single ended 7 MV Van de Graaff accelerator in Frankfurt
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 Knickelbein, M.B., J.W. Root and C.R. Hurlbut, A plastic scintillation counter for applications in radio-gas-chromatography
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- Knöfel, T.M.J., J.J.S. Estrada, O.A.P. Tavares, J.B. Martins and A. Goodwin, Response characteristics of cellulose nitrate track-detectors to radon and radon-daughter mixtures 212 (1983) 387
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- Koori, N., S. Oda, K. Kawamura, M. Fujiwara, K. Nagayama, N. Takeda, Y. Fujita, I. Katayama, S. Morinobu, T. Yamazaki and H. Ikegami, Other magic gas mixtures for multiwire proportional chambers 220 (1984) 453
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 Maurel, B. and G. Amsel, A new measurement of the 429 keV $^{15}\text{N}(\text{p}, \alpha\gamma)^{12}\text{C}$ resonance. Applications of the very narrow width found to ^{15}N and ^1H depth location. I. Resonance width measurement
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 Minehara, E. and S. Abe, Mass spectrometric study of the negatively-charged krypton and xenon monofluorides
 Minemura, H., S. Mori, M. Noguchi, R. Yoshizaki, K. Kondo, R. Fast, R. Kephart, R. Wands, R. Yamada, K. Asano, I. Kamishita, I. Kurita, R. Saito, T. Suzuki and T. Yamagiwa, Feasibility test of a shrink-fit assembly of a large-diameter superconducting solenoid for a colliding beam detector
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 Nakamura, M., H. Sakaguchi, H. Sakamoto, H. Ogawa, O. Cynshi, S. Kobayashi, S. Kato, N. Matsuoka, K. Hatanaka and T. Noro, Facility for the measurement of proton polarization in the range 50–70 MeV
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Niiimura, N., K. Yamada, T. Kubota, A. Matsumoto and S. Hoshino, Position sensitive neutron detectors using 6Li -glass scintillators and fibre optic encoding

Nikitin, S.A., E.L. Saldin and M.V. Yurkov, Calculation of the depolarizing effect of the field imperfections in electron-positron storage rings

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Nölscher, C., K. Brenner, R. Knauf and W. Schmidt, Elastic recoil detection analysis of light particles (1H - ^{16}O) using 30 MeV sulphur ions

Noma, H., F.T. Avignone, III, D.M. Moltz and K.S. Toth, A Monte Carlo study of the response of a germanium detector to electrons and positrons

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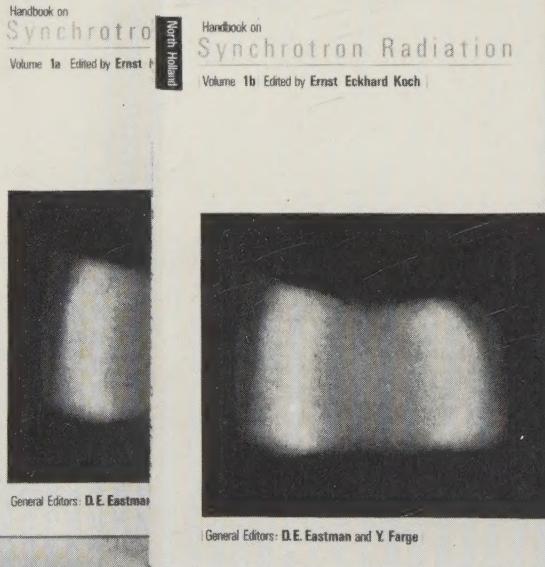
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